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INITIAL ,	AA1	4,673		06/16/1987	Backman, K.C.	4\$5	;	68		04/30/1984
182	AB1	4,743		05/10/1988	Backman, K.C. et al.	485	;	108		02/13/1985
1172	AC1	4,959		09/25/1990	Sauer, B.L.	435		172.	3	04/29/1987
1/2	AD1	5,227		07/13/1993	Blattner, F.R.	435	;	6		10/01/1990
	AE1	5,286		02/15/1994	Jones, D.H.	435	5	9 .2		01/09/1991
11	AF1	5,348		09/20/1994	Lee, S.C. et al.	435	5	320.	1	09/04/1992
	AG1	5,354		10/11/1994	Auerbach, J.I.	435	5	91.1		10/15/1993
11	AH1	5,434		07/18/1995	Bebee, R.L. et al.	¥35	5	172.	3	03/15/1994
' ///	AI1	5,470		11/28/1995	Mascarenhas, D. et al.	435	5	172.	3	12/21/1993
	AJ1	5,591		01/07/1997	Auerbach, J.I.	435	5	9 .2		02/03/1995
1/2/2	AK1	5,614		03/25/1997	Auerbach, J.I.	485	5	91.2		09/26/1995
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71							ì		1	Yes
<u> (J)</u>	AL1	EP 0	160 571	11/06/1985	Europe		 		-	No Yes
1	AM1	EP 0	300 422	01/25/1989	Europe					No Yes
117	AN1	WO 91	/02801	03/07/1991	WIPO					No
M	A01	WO 91	/16427	10/31/1991	WIPO					Yes No
Ź	AP1	WO 92	2/20791	11/26/1992	WIPO				1	Yes No
		I	OTHER (Including Author	, Title, Date, Pertinent	Pages, etc.)			
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0	AS	1	Properties	., and Hoess, R. of the Cre Recom Chemists, Inc. (, "Bacteriophage P1 Site-s binase Protein," <i>J. Biol.</i> 1984).	specific Re Chem. 259:1	combinat 509-1514	ion: 4, Ame	Purifi erican	cation and Society of
B	АТ	1	Topological	., et al., "Stud ly Unlinked Prod f Technology (19	ies on the Properties of F ducts following Recombinat 83).	P1 Site-Specion," Cell S	cific Re 32:1301-	combi	nation Massa	: Evidence for chusetts
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1/2	AA2	1	35,381	06/03/1997	✝	ooykaas, P.J.J. et al.	435		172		01/20/1995
1111	AB2		50,308	07/22/1997	1	aum, J.A.	435		172		
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111	AF2			01/20/1998	1	rose, C.F.	530		327	1	07/29/1996
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90	AJ2	 	4,336	04/28/1998	Н	odges, T.K. et al.	435		172		03/08/1996
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11	AS :	2	Adams, D. E. from the in	, et al., "Cre-lo Vitro Reaction,"	ox J.	Recombination in Escherichia co . Mol. Biol. 226:661-673, Academ	<i>oli</i> C	ells: ress,	Mecha Inc.	anistic (1992).	Differences
3		<u>2</u>	in the plant	t genome," <i>Plant J</i>	eci J.	ific integration of DNA into wi 7 :649-659, Blackwell Science L	.td. ((1995).	•		·
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ATTY. DOCKET NO. DOCKET NO. 09/907,900 Page 5 of 61 FORM PTO-1449 APPLICANT HARTLEY et al. INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE July 19, 2001 1636 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS | FILING DATE AA ΑB AC AD ΑE ΑF AG AH. ΑI ΑJ FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-CLASS TRANSLATION AL5 / WO 99/25851 05/27/1999 No Yes AM5 / 11/04/1999 WO 99/55851 WIPO No Yes AN5 / EP 1 035 208 A1 Europe 09/13/2000 No Yes WO 00/60091 A05 / 10/12/2000 WIPO No Yes AP5 WO 01/05961 A1 01/25/2001 WIPO No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in Current Protocols in Molecular Biology, pp. 1.5.3-1.5.4, John Wiley & Sons, Inc., Boston, MA, (1995). <u>5</u> AR Ausubel, F. M., et al., "Mutagenesis by the Polymerase Chain Reaction," in Current Protocols in AS <u>5</u> Molecular Biology, pp. 8.5.1-8.5.9, John Wiley & Sons, Inc., Boston, MA, (1995). Babineau, D., et al., "The FLP Protein of the 2-micron Plasmid of Yeast," J. Biol. Chem. ΑT <u>5</u> 260:12313-12391, American Society of Biological Chemists, Inc. (1985). DATE CONSIDERED 4+1-03 **EXAMINER** EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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9	AS	7	Bernard, F 148:71-74,	o., et al., "Pos Elsevier Scier	sitive-selection vec nce (1994).	tors using the	F plasmid	ccdB killer	gene," <i>Gene</i>
3	AT	Z	lotroce act	tivation of the	, "Segmental genomic p53 promoter in si Press (July 1997).	c replacement by ngle-copy transi	Cre-medi ormants,"	ated recombir Nucl. Acids	nation: genotoxic Res. 25: 2828-
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Page 9 of 61 TECH CENTER 1800/2000 NO. ATTY. DOCKET NO. 09/907,900 0942.285000D/BJD/MTT APPLICANT FORM PTO-1449 HARTLEY et al. GROUP INFORMATION DISCLOSURE STATEMENT FILING DATE 1636 July 19, 2001 U.S. PATENT DOCUMENTS FILING DATE SUB-CLASS CLASS NAME EXAMINER DOCUMENT NUMBER DATE INITIAL AA ΑВ AC ΑD ΑE ΑF AG ΑН ΑI ΑJ FOREIGN PATENT DOCUMENTS AK TRANSLATION SUB-CLASS CLASS COUNTRY DATE EXAMINER DOCUMENT NUMBER No INITIAL No AL Yes No ΑM Yes No Yes No ΑO OTHER (Including Author, Title, Date, Pertinent Pages, etc.) ΑP Bloch, C.A., et al., "Purification of Escherichia coli Chromosomal Segments without Cloning," Biochem. Biophys. Res. Comm. 223:104-111, Academic Press, Inc. (1996). 9 AR Bochner, B.R., et al., "Positive Selection for Loss of Tetracycline Resistance," J. Bacteriol. 143:926-933, American Society for Microbiology (1980). 9 AS Boyd, A.C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," Nucl. Acids Res. 21:817-821, Oxford University Press (1993). 9 ΑT DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through EXAMINER citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 10 of 61 ATTY. DOCKET NO. 0942.285000D/BJD/MTT APPLICANT FORM PTO-1449 HARTLEY et al. INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE 1636 July 19, 2001 U.S. PATENT DOCUMENTS FILING DATE SUB-CLASS CLASS EXAMINER DATE DOCUMENT NUMBER INITIAL AΑ ΑB AC AD ΑE AF AG ΑН ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS TRANSLATION SUB-CLASS CLASS COUNTRY EXAMINER Yes DATE DOCUMENT NUMBER No INITIAL Yes ΑL No Yes ΑM No Yes ΑN No Yes AO No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) ΑP Broach, J.R., et al., "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific," Cell 29:227-234, Massachusetts Institute of Technology (1982). <u>10</u> AR Brunelli, J.P. and Pall, M.L., "A Series of Yeast/Escherichia coli \(\lambda \) Expression Vectors Designed for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision," Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision, "Yeast 9:1309-1318, John for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision (Yeast 1) AS <u>10</u> Wiley And Sons Ltd. (1993). Brunelli, J.P. and Pall, M.L., "Lambda/Plasmid Vector Construction by In Vivo cre/lox-Mediated Recombination," BioTechniques 16:1061-1064, Eaton Publishing (1994). <u>10</u> ΑT DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through EXAMINEK: INITIAL IT reference considered, whether or not citation is in conformance with mere out. Draw time the citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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9	AS	29	Lakso, M. mice," Pro	, et al., "Targe oc. Natl. Acad.	eted oncogene activation by s Sci. USA 89:6232-6236, Nation	ite-specific rec al Academy of S	combination i	n transgenic 2).	
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9	AS	<u>32</u>	Lorbach, E. Mutants," J	, et al., "Site-s . Mol. Biol. 296:	specific Recombination in Human 1175-1181, Academic Press, Inc.	Cells Cataly (March 2000	/zed by Phage	e λ Integrase
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aj	AT	35	Mozo, T. and Hooykaas, P.J.J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," Mol. Gen. Genet. 236:1-7, Springer-Verlag (1992).								
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R) _{AT}	36	Nash, H Sci. USA	A., "Integrative 72:1072-1076, N	e Recombination of Bacteric ational Academy of Science	ophage Lambda DNA s (1975).	. In Vitro, " F	roc. Natl. Acad		
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9	AT	43	Podhajska construct Science (ion of the heat	"Control of cloned gene ex- -pulse-activated att-nutL-p	pression b	oy promoto dule," <i>Ger</i>	er inversion ne 40:163-16	in vivo: B, Elsevier
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Ŋ	AS	46	Sadowski, 165:341-34	P., "Site-Specifi 7, American Socie	ic Recombinases: Changing ety of Microbiology (1986	Partners a	and Doing	the Twist,	· J. Bacteriol.
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B	АТ	47	Sauer, B., 5:521-527,	"Site-specifi Current Biolo	c recombination: develop gy Ltd. (1994).	ments and app	lications,	" Curr. Op	. Biotechnol.
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9	AS	48	Sauer, B. Academic	., "Inducible Ger Press, Inc. (Apr	ne Targeting in Mice Using ril 1998).	the Cre/10	x system	n," Methods i	4:381-392,
27	AT	48	Sauer, B	. and Henderson, ation," <i>Gene 70</i> :	N., "The cyclization of l ⁱ 331-341, Elsevier Science (inear DNA i	in Esche	richia coli I	by site-specific
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9	AT	49	Schindel specific gene loc	nauer, D. and Co recombination (us," <i>Nucl</i> . Acids	ooke, H.J., "Efficient co IGSSR) of PAC fragments Res. 25:2241-2243, Oxfo	ombination of containing o ord Universit	f large D x satelli y Press (NA in vitro: te DNA and 1 (June 1997).	in gel site the human HPRT
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4	AT	51	Simpson, large-sca	J.C., et al., "S le cDNA sequenci	ystematic subccellular l ng," EMBO Rep. 11:287-292	ocalization 2, Oxford Ui	of novel niversity	proteins ic Press (Sept	lentified by ember 2000).
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27	, AT	52	Snaith, M.R., et al., "Multiple cloning sites carrying loxp and FRT recognition sites for the Cre and Flp site-specific recombinases," Gene 166:173-174, Elsevier Science (1995).							
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Ŋ	AS	<u>54</u>	Storck, T manipulat	Storck, T., et al., "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," <i>Nucl. Acids Res. 24</i> :4594-4596, Oxford University Press (1996).					
M	AT	<u>54</u>	Strathman 88:1247-1	n, M., <i>et al.</i> , 1 250, National A	"Transposon-facilitated DNA s cademy of Sciences (1991).	equencing," <i>Pro</i> d	c. Nat1. Acad	. Sci. USA	
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d	AS	55	λ: Role of	Thompson, J.F., et al., "Helical-repeat dependence of integrative recombination of bacteriophage A: Role of the Pl and Hl protein binding sites," Proc. Natl. Acad. Sci. USA 85:6323-6327, National Academy of Sciences (1988).						
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3	AT	<u>56</u>	Venkatesh Recombina (1993).	, T.V. and Raddi	ing, C.M., "Ribosomal Pro of Phage λ," J. Bacterio	otein S1 and N 7. 175:1844-18	usA Protein (46, American	Complex Societ	ed to y of Microbiolog
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Ŋ	AS	<u>58</u>	Wierzbicki, Biol. 195:70	A., et al., "A N B5-794, Academic	Mutational Analysis of the Bact Press, Inc. (1987).	eriophage P1	Recombinase	Cre," J. Mol.	
B	AT	<u>58</u>	Wild, J., e large quant Elsevier Sc	ild, J., et al., "A broad-host-range in vivo pop-out and amplification system for generating arge quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," <i>Gene 179</i> :181-188, sevier Science (1996).					
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2	AT	<u>59</u>	Yang, W. an Current Bio	d Mizuuchi, K., ' logy Ltd. (Noveml	"Site-specific recombination ber 1997).				
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